

## ABSTRACT

Provided is a method of stabilizing a reagent that allows simultaneous quantification of LDL cholesterol and total cholesterol by a single measurement by suppressing spontaneous color development thereof. A method of quantification for cholesterol in low density lipoprotein and total cholesterol in a biological sample by the single measurement comprises a first step of treating lipoproteins other than low density lipoprotein in the biological sample to generate hydrogen peroxide and a second step of converting the hydrogen peroxide obtained in the first step to a quinone dye and treating remaining low density lipoprotein and converting generated hydrogen peroxide to the quinone dye, where the quinone dye is not formed in the first step, and cholesterol in low density lipoprotein and total cholesterol are quantified from the amount of the quinone dye formed in the second step by the single measurement.